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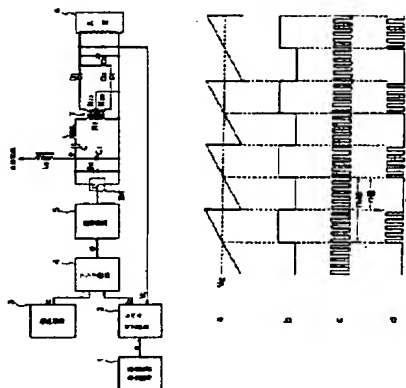
(54) **OUTPUT CONTROL METHOD FOR RESONANT DC-DC CONVERTER**

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(57) Abstract:

PURPOSE: To control power conversion over a wide range in a low switching loss operating mode by switching the switch of a resonance circuit by means of a switching pulse train thereby operating the resonance circuit and controlling power conversion.

CONSTITUTION: A level judging circuit 2 outputs a pulse (b) having width corresponding to the fluctuation of a load voltage  $V_c$  and an AND gate 4 thins out a pulse train (c) fed from an oscillation circuit 3 by an amount corresponding to the low level interval  $T_o$  of the pulse (b). Upon fluctuation of a load 6, the load voltage  $V_c$  fluctuates and fed back to the level judging circuit 2. Consequently, the number (n) in a pulse pause interval  $T_o$  varies to cause variation of the number of pulses to be fed to a switch SW thus varying the switching time of the switch SW. Since the number of times for feeding current to a resonance circuit also varies to cause variation of in the power conversion, the load voltage can be controlled constant and fluctuation thereof is suppressed.



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